

## *A Guide to Levelogger Deployment & Communication*



## Deployment Options

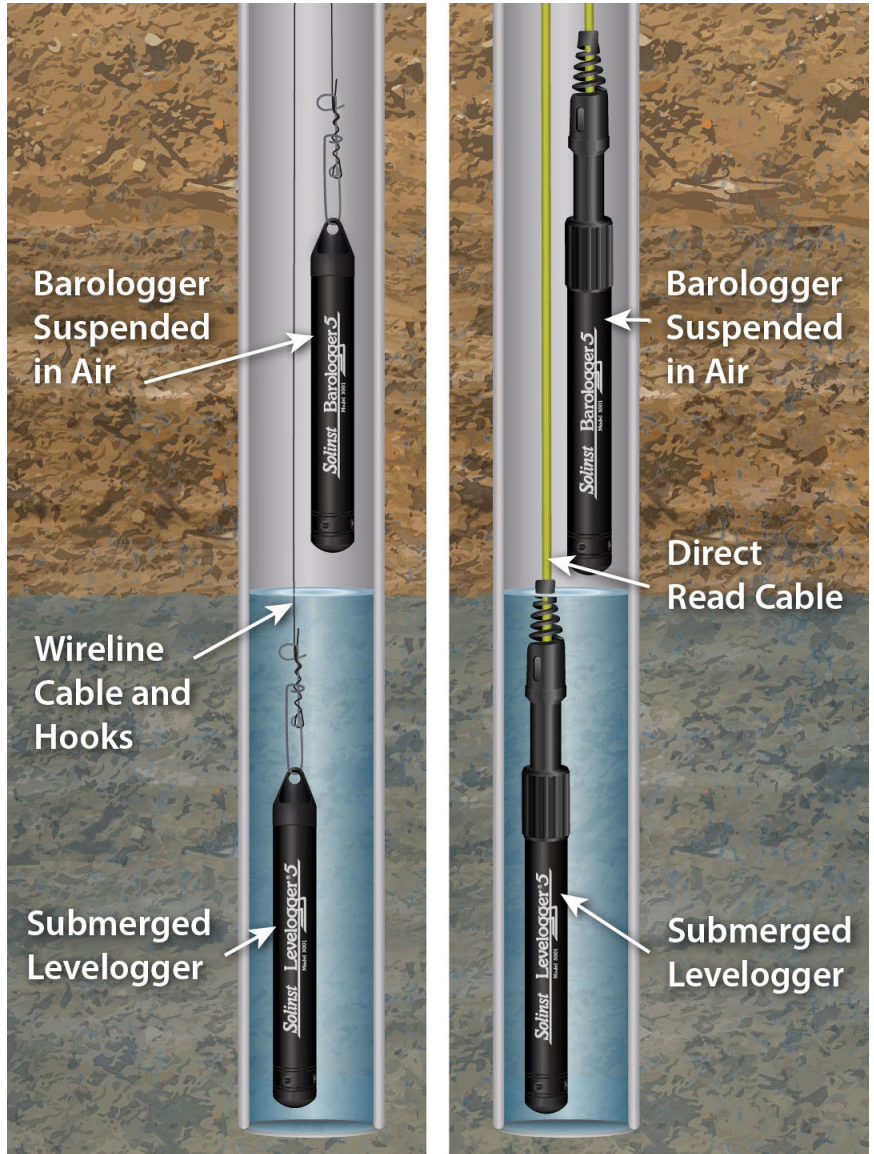
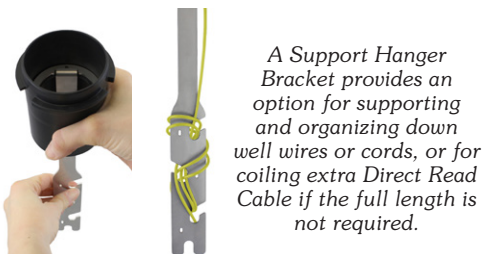
### Wireline/Kevlar Cord Deployment

Use this method when you wish to minimize up front costs, and pre-program Levelloggers in the office. Lower into the well, suspended on wireline or Kevlar cord from a Solinst 2" (4" with reducer) Lockable Well Cap.



### Direct Read Cable Deployment

Use this method when you want direct communication with your Levellogger while it is deployed, and to view real-time readings. Deploy with L5 Direct Read Cables using a Solinst 2" (4" with reducer) Lockable Well Cap. (An L5-Edge DRC Adaptor is available to work with older style Direct Read Cables.)



### Monitoring Artesian Conditions

Solinst offers an assembly for monitoring artesian wells. It provides options for in-well, and top of well installation, and can accommodate the use of L5 Direct Read Cables.



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## Communication Options

### Communicating with Solinst Levellogger PC Software



Field Reader 5



Desktop Reader 5

### Standard (Wireline/Kevlar Cord) Communication

To retrieve data or re-program, remove the Levellogger from the well and use a **Field Reader 5** or **Desktop Reader 5** attached to a portable or office computer.



PC Interface Cable

### Direct Read Communication

Pre-program Levelloggers in the office using a Field Reader 5 or Desktop Reader 5. In the field, use a laptop and **PC Interface Cable** connected to the L5 Direct Read Cable to program, view or download data.

### In-field Communication

**Levellogger 5 App Interface** connected to an L5 Direct Read Cable provides a wireless *Bluetooth®* connection between the Levellogger and the Solinst Levellogger App on your iOS or Android™ smart device, for programming or downloading data.



**Solinst Readout Unit (SRU)** connected to an L5 Direct Read Cable displays instant water level readings, real-time logging, Levellogger status, and allows saving and downloading data to the SRU.



A **DataGrabber 5** connected to an L5 Direct Read Cable allows Levellogger data to be copied to a USB memory key.



An *L5 Threaded or Slip Fit Adaptor* allows direct connection of a Levellogger to a Levellogger 5 App Interface, SRU or DataGrabber 5 for programming or downloading data in the field. This is useful for Levelloggers not deployed using an L5 Direct Read Cable.

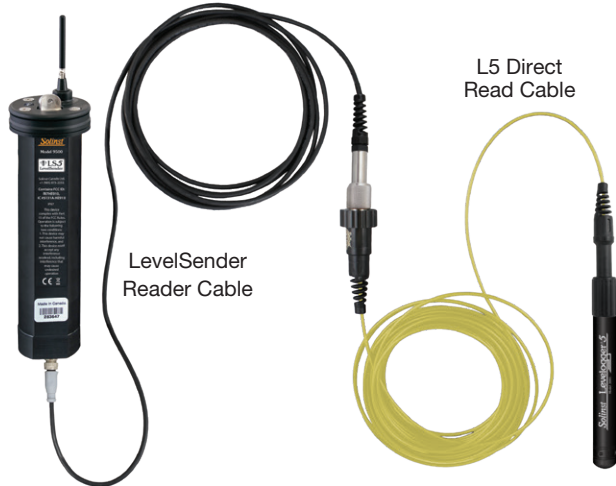
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## Remote Monitoring Options

### Solinst Telemetry Systems

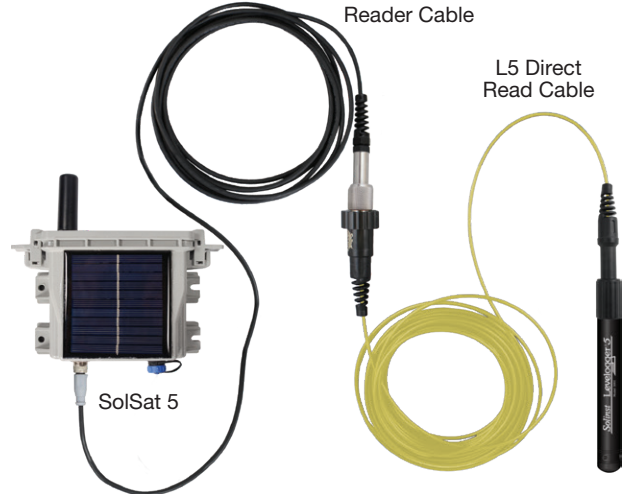
Solinst has options for wireless remote communication using cellular or satellite telemetry. Real-time data is sent from field-located Levelloggers to your office PC or smart device.

LevelSender 5



*The LevelSender 5 uses 4G cellular communication to send Levellogger data to the Solinst Cloud or via FTP (email and SMS are also options) Fits in a 2" well.*

SolSat 5 Reader Cable



*SolSat 5 Satellite Telemetry uses Iridium satellite communication to send Levellogger data to a secure web portal or for download in the SolSat 5 Wi-Fi App.*

STS Remote Station



*STS Telemetry Systems use the latest in wireless technologies communication to send remote water level data from Levelloggers to a Home Station PC.*

L5 Direct Read Cable



*RRL 5 Remote Radio Link uses free, short-distance radio communication to send remote water level data from Levelloggers to a Home Station PC.*

**NOTES:** Solinst Levelloggers are able to communicate with third-party dataloggers using SDI-12 or MODBUS protocols, by connecting a Levellogger's Direct Read Cable to a Solinst SDI-12/MODBUS Interface Cable. For Information on deploying the Rainlogger 5, see our *Rainlogger 5 Setup* document. For information on deploying your Levelloggers in surface water applications, see our *Long-term Open Channel and Surface Water Monitoring with Levelloggers* technical bulletin. Always ensure proper maintenance and care of your Levellogger, see our *Ensuring Proper Use and Maintenance of Levelloggers* technical bulletin.